

File No.: 16318-1US RC/DStM/ab

**IN THE U.S. PATENT AND TRADEMARK OFFICE**

Applicants : Xiao LU et al.  
Title : "PROCESS FOR RECOVERING VALUE-ADDED  
PRODUCTS FROM PULPING SOAP  
Filed : herewith  
Serial N° : not yet known  
Group Art Unit : unknown

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**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.56**

Assistant Commissioner of Patents  
Washington, D.C. 20231, USA

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR § 1.56.

The submission of the listing of documents herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR § 1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie prior art reference against the claims of the present application.

**CONCISE EXPLANATION OF  
RELEVANCE OF EACH DOCUMENT**

Documents A1, A2, A3 and A4 are discussed on page 2 of the specification.

Document A5 describes a process for the recovery of  $\beta$ -sitosterol.

Document A6 describes a process for the isolation of  $\beta$ -sitosterol containing a low percentage of  $\alpha$ -sitosterol.

Document A7 describes a process for the preparation of a  $\beta$ -sitosterol concentrate containing less than 5% per weight of  $\alpha$ -sitosterol.

Document A8 describes the process for the isolation of  $\beta$ -sitosterol.

Document A9 describes a process for the separation of sterols and mixtures of sterols.

Document A10 describes a process for the purification of  $\beta$ -sitosterol isolated from the unsaponifiables in crude soap from the sulphate cellulose process.

Document A11 is discussed on page 2 of the specification.

Document A12 describes a method for separating sterols from tall oil.

Document A13 describes a method for separating sterols from tall oil.

No fee is required since this Information Disclosure Statement is being submitted concurrently with the filing of the present application.

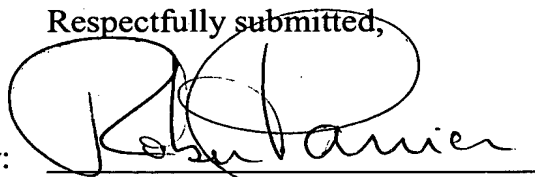
Applicants respectfully request that the listed documents be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP § 609.

Respectfully submitted,

November 20, 2003

Date

By:

A handwritten signature in black ink, appearing to read "Robert Carrier", written over a horizontal line.

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Substitute for form 1449PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	
		Filing Date	
		First Named Inventor	Xiao LU et al.
		Art Unit	
		Examiner Name	
Sheet 1 of 1	Attorney Docket Number	16318-1US RC/DSIM/ab	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code <sup>2</sup> (if known)			
	A1	US-2,573,891	11-06-1951	Christenson, R. M.	
	A2	US-2,715,638	08-16-1955	Albrecht et al.	
	A3	US-2,835,682	05-20-1958	Steiner et al.	
	A4	US-3,840,570	10-08-1974	Julian, D. V.	
	A5	US-4,153,622	05-08-1979	Lamminkari et al.	
	A6	US-4,265,824	05-05-1981	Koskenniska et al.	
	A7	US-4,279,827	07-21-1981	Ukkonen et al.	
	A8	US-4,298,539	11-03-1981	Koskenniska, Lasse A.	
	A9	US-4,420,427	12-13-1983	Hamunen, A.	
	A10	US-4,422,974	12-27-1983	Hamunen, A.	
	A11	US-5,770,749	06-23-1998	Kutney et al.	
	A12	US-6,107,456	08-22-2000	Huibers et al.	
	A13	US-6,414,111	07-02-2002	Huibers et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	†
		Country Code <sup>3</sup> – Number <sup>4</sup> – Kind Code <sup>5</sup> (if known)				

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

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